Contents

Letters to the Editor		Tidally-detonated nuclear reactions in main sequence stars	
The new binary millisecond pulsar PSR 0021-72 A: a laboratory for gravitational physics		passing near a large black hole Luminet, JP., Pichon, B.	85
Wijers, R.A.M.J.	L1	Tidal pinching of white dwarfs Luminet, JP., Pichon, B.	103
Anisotropic neutrino emission from rotating protoneutron stars Janka, HT., Mönchmeyer, R.	L5	The coalescence of white dwarfs and type I supernovae Mochkovitch, R., Livio, M.	111
Cosmology	20	Outflow velocities from carbon stars Zuckerman, B., Dyck, H.M.	119
The two-point correlation functions of galaxies with different luminosities		Radiation-hydrodynamic equations for stellar oscillations Da-run Xiong	126
Boerner, G., Deng, ZG., Xia, XY.	1	Investigation of a criterion for the evolution to red giants Weiss, A.	135
Extragalactic astronomy		The Baade-Wesselink method applied to field RR Lyrae stars. II. SW Andromedae, SW Draconis, and SS Forna-	
Dust grains in M 104: an interpretation of the optical polarization in an external galaxy		cis Cacciari, C., Clementini, G., Prevot, L., Buser, R.	141
Matsumura, M., Seki, M. Intrinsic versus observed properties in near large spherical structures	8	The Baade-Wesselink method applied to field RR Lyrae stars. III. YZ Capricorni, RV Phoenicis, and V440 Sagit- tarii	
Rdz Jordana, J.J., Salvador-Solé, E., Solanes, J.M.	15	Cacciari, C., Clementini, G., Buser, R.	154
Reduction of the Oort limit and the dark matter contribu- tion to it Boulares. A.	21	IRAS Low Resolution Spectrograph spectral class and M and S Miras	160
The evolution of the Eddington ratio for active galactic nu-	21	Vardya, M.S. Extended optical spectroscopy of the massive companion	165
clei Padovani, P.	27	of 4U 1907+09 van Kerkwijk, M.H., van Oijen, J.G.J., van den Heuvel. E.P.J.	173
Galactic structure and dynamics		"Mixed" mass transfer- and disk-instability models for	110
Galactic rotation curve in the range $0.4 < R/R_0 < 1$ from neutral hydrogen 21 cm line profiles and the graphic variant of the Agekyan et al. method		dwarf nova eruptions Duschl, W.J., Livio, M.	183
Teerikorpi, P.	46	Stellar atmospheres	
An optical spiral arm beyond the Perseus arm Kimeswenger, S., Weinberger, R.	51	A model for a stellar wind driven by linear acoustic waves Pijpers, F.P., Hearn, A.G.	198
Formation, structure and evolution of stars		The chemical composition of the extreme halo stars. I. Blue spectra of 20 dwarfs	
Photometric analysis of RR Lyrae stars. I. The multi- periodic ST CVn		Magain, P.	211
Peniche, R., Gomez, T., Parrao, L., Peña, J.H.	59	Broadening of iron resonance lines in X-ray burst spectra <i>Madej, J.</i>	226
The structure equations of contact binaries and the light curve paradox		"Normal" main sequence A0 stars of low rotational velocity	
Kähler, H.	67	Ramella, M., Gerbaldi, M., Faraggiana, R., Böhm, C.	233

Non-LTE line formation in early B and late O stars. IV. Singly ionized nitrogen		Properties of planetary nebulae. II. Central star evolution <i>Gathier, R., Pottasch, S.R.</i>	369
Becker, S.R., Butler, K.	244	C ₃ H ₂ observations in dense dark clouds	
New aspects of the variability of the probable pre-main sequence star HR 5999		Cox, P., Walmsley, C.M., Güsten, R.	382
Baade, D., Stahl, O.	255	The Sun	
Rapid line profile-variability of the A-type shell- and possible pre-main sequence star HD 163296 Baade, D., Stahl, O.	268	Lifetimes and transition probabilities in VII and the solar abundance of vanadium Biémont, E., Grevesse, N., Faires, L.M., Marsden, G.,	
Chromospheric lines in red dwarf flare stars. III		Lawler, J.E., Whaling, W.	391
Pettersen, B.R.	279	Overstability of magnetic flux tubes in the Eddington ap-	
A combined radio and X-ray observation of Algol van den Oord, G.H.J., Kuijpers, J., White, N.E., van der Hulst, J.M., Culhane, J.L.	296	proximation Massaglia, S., Bodo, G., Rossi, P.	399
Time-dependent effects of acoustic wave heating and mo-		The solar system	
lecular cooling in the outer atmosphere of Arcturus Cuntz, M., Muchmore, D.	305	A numerical model for a cosmic ray modulation barrier in the outer heliosphere Potgieter, M.S., Le Roux, J.A.	406
Diffuse matter in space (including HII regions and planetary nebulae)		Models of evolutionary tracks of planetary satellites Horedt, G.P.	411
The role of refractive interstellar scintillation in the low frequency variability of extragalactic radio sources		Celestial mechanics and astrometry	
Spangler, S., Fanti, R., Gregorini, L., Padrielli, L. Effect of diverging magnetic fields on mass loss in late-type	315	Accurate position for the globular cluster X-ray source M15: AC211/X2127+119	423
giant stars Jatenco-Pereira, V., Opher, R.	327	Geffert, M., Aurière, M., Ilovaisky, S.A., Terzan, A.	423
Continuum observations of Sgr A at mm/submm wave-		Physical and chemical processes	
lengths Mezger, P.G., Zylka, R., Salter, C.J., Wink, J.E., Chini, R., Kreysa, E., Tuffs, R.	337	The stability of isotropic distribution functions of relativis- tic electrons. II. Oblique propagating Langmuir waves in an electron-proton plasma	
Large-scale behaviour of dust grains in a galactic environ-		Lesch, H., Crusius, A., Schlickeiser, R.	427
Barsella, B., Ferrini, F., Greenberg, J.M., Aiello, S.	349	Instruments, data processing, and computational methods	
A study of the composite supernova remnant G 18.95-1.1 Fürst, E., Hummel, E., Reich, W., Sofue, Y.,		The segmented Prony method for the analysis of non-sta- tionary time series	
Sieber, W., Reif, K., Dettmar, RJ.	361	Barone, P., Massaro, E., Polichetti, A.	435

